### **DEMAND FOR TRUCKS CONSTANTLY GROWING**

to Take Care of Coming Business.

"The motor truck business has grown by leaps and bounds during the last year and it seems as if at last this branch

Mr. Rueschaw took occasion to deny that the Reo company had w war order

for trucks,
"We are not looking for business from
these countries at this time," he said. these countries at this time," he said. "We feel that good business policy dictates that we take care of our home trade before going after the other and with our present factory facilities we find it absolutely impossible to catch up with the domestic demand for motor tracks. Understelly, the European detrucks. Undoubtedly the European demand worked beneficially for the truck business in two ways.

"In the first place it enabled many

manufacturers to go into the truck busi-ness on a larger scale than ever before and the performance of American trucks ope demonstrated as nothing else "Dirboldened by that accomplishment

American, business houses which had been healtaing for a long time about discard-ing the slow expensive horse equipment and installing motor trucks finally made the plunge. It is interesting to note that



## DEVELOPMENT OF THE ALL YEAR CAR TOLD

Reo Company Enlarging Plant Winter and Summer Type, Invented by Kissel, No Longer a Novelty.

By GEORGE A. KISSEL.

The most successful inventions are and it seems as if at last this branch of the automobile industry, to the development of which we have all looked forward, is finally coming into its own, says R. C. Rueschaw, sales manager of the Reo Motor Truck Company.

"We ship more motor trucks in a week now than we used to ship in a year and still the orders come faster than we can make the trucks."

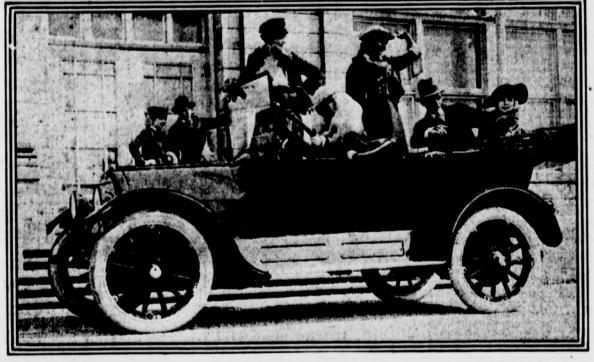
Mr. Rueschaw took occasion to deny:

At the 1914 automobile shows the Kisat this time.
At the 1914 automobile shows the Kis-

sel Motor Car Company presented as a novelty—not as standard—a new style of touring body, which had but two en-trance doors and a divided front seat with a corridor between. This model not only was a subject of much interest and comment, but a great many orders were taken for it. So many inquiries were received for this design that it was decided to adopt it as standard. It was introduced as such in May, 1911. That was the germ of the all year car decided. The future no one can predefine the standard of the standard of the last year has been beyond expectations. The future no one can predefine the standard of the standa

Two doors and a divided front seat, laid their plans for the coming year on an opportunity to perfect a two in one car; a car that would be a high grade closed coach in winter and a stylish touring car in summer. For two months our body engineers labored at nothing to-day because it largely counteracts the

This Is Overland's Model 83B, a Big Little Car



## **BOOM PREDICTED BY AUTO MANUFACTURERS**

mands Will Be Bigger Than Ever, Says Toback.

dlot. Automobile manufacturers have

else. There were obstacles to overcome. to-day because it largely counteracts the Many plans were rejected. It must be a ill effects that followed the introduction else. There were obstacles to overcome. Many plans were rejected. It must be a thorough job, something that looked just as good and served as completely in its as good and served as completely in its winter form as in its summer form. It was determined that the only way to build this model was to construct the two halves as one. This we fild. The two halves as one. This we fild. The two halves as one. This we fild. The original job, removable at the owner's will.

"To meet this overwhelming demand we have under construction and now al
"The public announcement of the all mobile industry is counteracts the discounteracts the discoun

Lexington-Howard Thoroughbred Six

the cars of this type which took part

## EFFICIENCY OF EIGHTS | HEADS OF HUPP PLANT PROTED BY THE COLE WHO CAUSED SUCCESS

Foreign and Domestic De- Last Year of Cross-Country J. W. and J. R. Drake and Ed-Travel Gave This Car a Severe Test.

> By C. P. HENDERSON. Car Company.

A little more than a year ago the Cole Motor Car Company, after months of research, decided to produce an eight cylinder car. It was a novelty to begin duced according to the precepts of standardization, and when it was placed be-fore the public it was accepted with the assurance that it must have been right or it could not have withstood the rigid tests which naturally were applied to it during its process of construction.

A year of excellent performances is now written into the history of the multi-cylinder motor car and it has definitely proved its right to be called the car of the future.

Edwin Denby have directed the affairs of the concern since its inception and it is largely due to the harmonious work of this trio that the Hupmobile has achieved its success.

J. Walter Drake and Edwin Denby

of the cars of this type which took part in the recent inaugural tour over the proposed Dixle Highway between Chi-cago and Miami, Fla., on which the Cole eight acted as the official pilot car. Reed L. Parker, the automobile expert.

personally saw two of the multi-cylinder jobs negotiate mountain roads that two years ago would not have been passable to any kind of a motor car. The cars referred to are a Cole and a Cadillac. There never was a miss in either engine. In fact, both cars showed wonderful

win Denby Were Founders of Company.

As a man is known by the company Sales Manager Cole Motor he keeps, so is an automobile judged by the factory in which it is produced and the men behind the factory. In the case of the Hupmobile, that car was conceived, started and developed by the plant, while the bodies will be constructed case of the Hupmobile, that car was same three men who to-day are the con-trolling factors and directing forces of coach and body work.

tinies. President J. Walter Drake, Sec-retary Joseph R. Drake and Treasurer Edwin Denby have directed the affairs

multi-cylinder motor car and it has definitely proved its right to be called the car of the future.

The last summer, with its torrential rains in many sections, has come to be looked upon as one of the worst seasons for touring that we have had in this country in years, yet there were more motor cars out on the road than ever in the history of the country. The American tourist was forced to stay at home because of the untoward conditions existing in Europe. Trips across the continent were many. Every nook and cranny of the land was explored. And out of it all the multi-cylinder car with its wonderful road ability stands unexcelled in point of achievement.

Cars of this type have mounted easily to the crests of hills and climbed the long, steep grades of mountain passes that cars of other types have never been able to reach. And the multi-cylinder car can usually take them on high. No more striking example of the efficiency of the multi-cylinder car has recently been had than through the performance of the cars of this type which took part in the recent inaugural tour over the

Jackson, Mich.

Besides being president and the directing head of the Hupmobile Mr. Drake is also director in several other Detroit manufacturing concerns. He is noted for his philanthropy and is especially interested in bettering the conditions not only of his workmen but of the communities in which his plants are located. He has equipped a playground near his Detroit plant for the use of the children of the neighborhood. He opened a clubhouse next to the factory for the

eight acted as the official pilot car. Reed L. Parker, the automobile expert, who made the long trip, said:

"If there is any doubt resting in the minds of the motor buying public concerning the efficacy of the eight cylinder motors it may be removed, because I. widely known in political circles and served several terms in Congress.

Joseph R. Drake takes care of the ex-Joseph R. Drake takes care of the ex-port business of the concern. Mr. Drake has made two trips around the world in Hupmobiles and it was because of these trips and because of the performance of the car that the Hupmobile secured

its excellent foreign representation.

IS EASILY CONTROLLED

General Electric Company Gets Interest and Will Build Transmissions.

OWEN MAGNETIC CAR

E. S. Partridge, sales manager of the wen magnetic car, whose original ideas nd selling methods are largely responsible for the place the car with the elec-

afford to overlook. It is not only the distinct novelty of the show, but it also represents the ideal motor car which designers have been striving for since the inception of the automobile industry. In other words, the Owen magnetic car answers the popular demand for flexfbility and a control so simple that even a child can understand how to operate the car.

"The car embodies simplicity of construction without adding additional parts, because the generator and motor employed in our transmission are the same units found on any gasolene car to-day, but are simply a little larger and are arranged in a slightly different man-

ner on the chassis.

"A man who purchases an Owen magnetic car is not buying an experiment, but a tried and true mechanical principle. The General Electric Company after thorough tests recently purchased a substantial interest in the rates covered. a substantial interest in the patents cov ering this transmission and in the fu-ture will build all of the transmissions used not only in the Owen magnetic cars. but will also supply the demand that will be made upon them by other manufacturers that are to adopt this system.

"The Baker R. & L. Company of Cleveland are also part of this combination and the facilities of their huge Cleveland plants will be directed to the manufacturers that the combination are the company of the combination and the facilities of their huge Cleveland plants will be directed to the manufacturers the company of the c

the Hupp Motor Car Corporation.

Few factories have been more fortunate than the Hupp in retaining the mane men in the direction of their destinies. President J. Walter Drake, Sectinies. President J. Walter Drake, Sectinies.



## BUICK CONTENDS SIXES | BEAUTY IS ESSENTIAL ARE SMOOTH ENOUGH

Power Without Mechanical Sacrifices.

By R. H. COLLINS. tor Company.

sible for the place the car with the electric transmission now occupies in the public mind, in discussing the future prospects of this car said:

"This is the one car in the Palace of six cylinder motors contend that this type of power plant yields the maximum of smooth power that can be obtained."

"This is the one car in the Palace of six cylinder motors contend that this type of power plant yields the maximum of smooth power that can be obtained without the precessity for more or less Automobile Show which no visitor can without the necessity for more or less



ess of the power developed by a moth ness of the power developed by a more increases as the cylinders are increased in number. Makers of sixes contend, however, that beyond a certain point this extra smoothness of power has no significance to the average motorist. They argue that for all practical purposes the six cylinder motor supplies power that is smooth enough to be defined as practically liquid in its flow.

The Buick Motor Company of Flint, the world's largest manufacturers of

the world's largest manufacturers of six cylinder motors, received thousands of inquiries after their "sixes exclusively" announcement, asking why their output would be confined to that one type. The Buick company contends that in the present stage of engineering development to go beyond six cylinders would involve a mechanical complexity and expense which would not be warranted by the advantages gained. The Buick company also takes the position that the six is the logical motor from the standpoint of public favor as well as the standpoint of mechanical efficiency. Since the announcement that

well as the standpoint of mechanical efficiency. Since the announcement that all Buicks would be six cylinder models the company has been swamped with a demand for its product.

Buick six cylinder motors are built with the valves directly in the top of the cylinders—hence the name "valve-in-head"—so that on the exhaust stroke the dead gases, in order to get out, travel in a straight line. In other types of motors this is not true. The great Buick superiority, and the one upon which the Buick Motor Company lays the greatest stress, is correctness of design. The valve-in-head motor is absolutely correct in principle.

Speedometer in Line of Vision. If there is any single guage or meter which it would seem should be easily and quickly, read it is the speedometer.

An example of the care exercised in this direction is seen in the Cadillac. The speed indicator is set in the instrument board directly in line with the driver's vision.

Way to abolish him is to give him a car that not only is good but looks good—a car that tells its own class without the aid of a megaphone.

"That has always been the policy of the Briscoe organization; and now that we make every part of our cars in our own plants it will be even more closely followed."

## OF LOW PRICED CARS

Yields Maximum of Liquid Designers Will Have to Give Owners Grace as Well as Power.

> "I've often wondered," said Benjamin Briscoe the other day, "when the great American public that buys popular priced cars was going to rise up and demand good looks as a first essential of satisfaction. And I venture to say that the time is here and that she big sellers in the popular priced field in 1916 will be the cars with grace and distinction to recommend them as well as mechanical

"It is a curious fact in the history "It is a curious fact in the history of nearly all manufacturing that appearance was the last thing considered, unless the article was a high priced one. That has been true of everything from shoes to ships, from aeroplanes to automobiles. And there's no real reason for it except that the inventors, the engineers and the mechanical men subordinated everything to their end of the game—and everything else was after-thought.

thought.

'The result in the automobile field has been that the owner of a popular priced car has seldom had any well developed pride of possession. Yet beauty is not a matter of dollars and cents. The cottage may, and often does, excite more defination, and envy, than the manmore admiration and envy than the man-

"I have come to the conclusion that it is time for the engineers to get closer to the rest of the organization—not to take a back seat, but to sit in the same box with the fellows to whom a beautiful car is just as important as a mechanically perfect one, instead of building the chassis and giving the body design little more attention than that of the gas tank let's start even and design body "In other words, let the public build



BENJAMIN BRISCOE.

the car. The time has gone by when motor cars were a sacred mystery known only to the few. So let the public that buys them and uses them dictate what should go into them. And above all let's produce cars that the buyer can really be proud of. We've all met, the man who is continually on the defensive about his car—there are thousands of him.

him.
"Yet he's a type that the manufac-turers themselves have created; and the way to abolish him is to give him a

# Pierce-Arrow Cars

The new models known as Series IV, to be shown at the Palace Auto Show and also at the New York and Newark salesrooms, are evolutionary rather than revolutionary.



A very complete exhibit will be made. Two entirely new models are the low, rakish fourpassenger car, and the Convertible car, with open and enclosed tops.

HARROLDS MOTOR CAR CO. 233-239 W. 54th St. New York, N. Y.

**ELLIS MOTOR** CAR CO. 416 Central Ave. Newark, N. J.





## The Best America Affords in Motor Car Construction

The S G V Chassis and body features are acknowledged to be in a class by themselves. Our new 35-H. P. Engine, 31/8 x 6, with aluminum pistons and other superior features, must be seen to be appreciated.

THE SGV CO., 500 Central Avenue, Newark, N. J. Telephone 2117 COME TO THE SHOW AND ALLOW US THE PRIVILEGE TO DEMONSTRATE CONCLUSIVELY Space C-6.



motor is quiet, yet it was not designed for silence, and while its quietness is distinctive its greatest features are relia-

bility, increased power, smoothness, flexibility, lack of repairs and adjust-ments, economy and long life.

There are thousands of Knight en-

gines in use all over the world and car owners have found them to give even better service the second and third years

type.

"In the Knight type motor such troubls has been eliminated by removing the cause. The use of sleeve valves means a motor that under all circumstances is absolutely reliable. Retiming is never absolutely reliable. Retiming is never the leader in the motorcycle tire field. Three of every four motorcycles in the necessary. There are no valves to be United States start their gareers on the leader in the motorcycle in the necessary. There are no valves to be under the leader in the motorcycle in the necessary. There are no valves to be under the leader in the motorcycle in the necessary. There are no valves to be under the leader in the motorcycle in the necessary. There are no valves to be under the leader in the motorcycle in the necessary. There are no valves to be under the leader in the motorcycle in the necessary. There are no valves to be under the leader in the motorcycle in the necessary.

necessary. There are no valves to be ground, to warp and lose compression. There is no guesswork. The entire action is positive and never failing. The motor is quiet, yet it was not designed

joining.

eating up gas and spark on Blue Streak Tires.

John N. Could Run a Railfoad. There are over five miles of railroad

tracks on the Willys-Overland Com-pany's property in Toledo. This does not

include tracks on railway property ad-

Drive Chains Are Adjustable. A new feature which appears in cam shaft drive chains are obtained in the new eight cylinder King, they being

FORD COMMERCIAL BODIES for Fu-Ambulance, Jitney, Express and

er purposes.

All types of Panel Bodies with the "HExtension, which gives you from 56h to 90-inch loading space behind
ver's seat without overhang.

HAYES-DIEFENDERFER CO.,
"Too long a name to be forgetten."

Maxwell Motor Co.